USER MANUAL
K575P36W3RGBAW

KANDOlite®

Index

Summarize

Thank you for purchasing our LED PAR lighting. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misusage.

Products introduce

This led K575P36W3RGBAW light is uses aluminum shell, designed in a fashion of hydrodynamic form. Appearance shows: long can, short can or short can with color filter. It takes uses high power R, G, B, A,W 5 kinds LED. It uses power switch, performs low weight and consumption, stable capability and long life. The built-in program includes dimmer, strobe, eotic, gradual change, fading and so on. International standard DMX 512 signal is requested.

Packing list

- K575P36W3RGBAW light   1PC
- DMX cable   1PC (Sold separately)
- The use manual
- Warranty Card

Safety Information

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

**!** Avoid direct eye exposure to the fixture when it is on;

Safety instruction

● Make sure the power supply voltages are consistent with this lights，Ensure the use of voltage is in the range of the request technical parameter.

●before the installation, please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.

●This light is designed for indoor use, working temperature is lower than 40 degree.

●The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items (ornaments) in 0.5 meters away.

●Yellow / green cabling earthling safety; no flicker when the fixture is working on.

Outside Size Picture
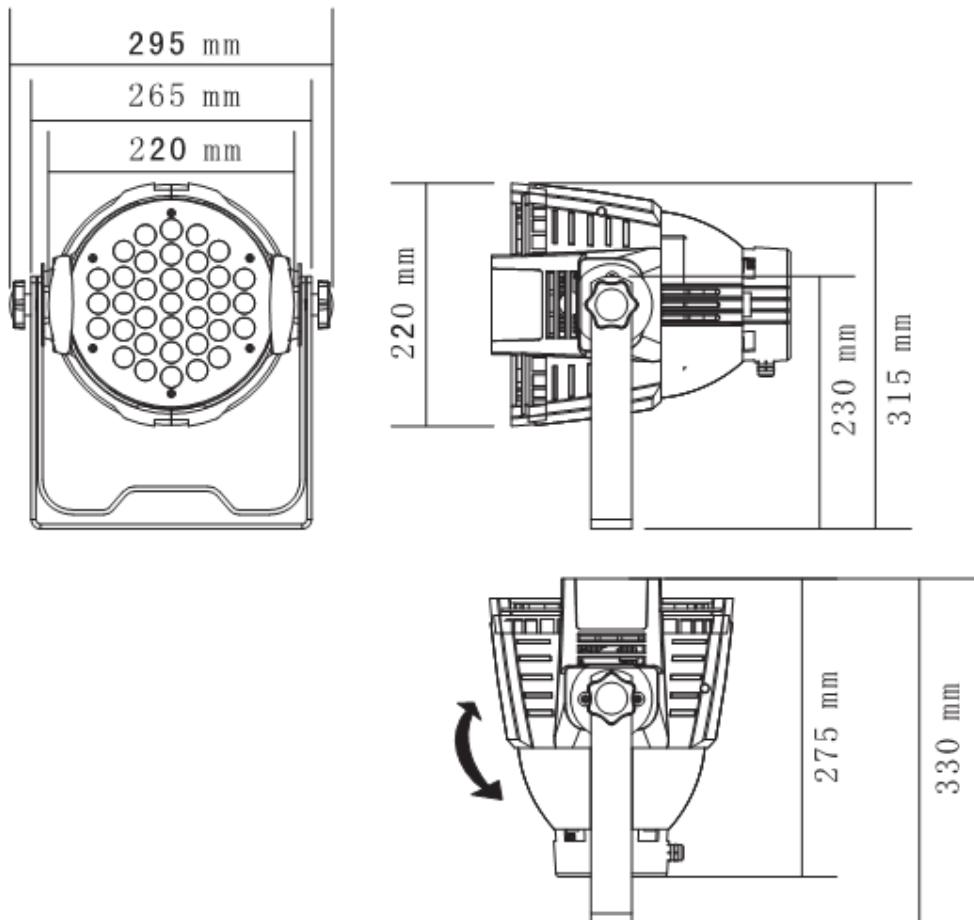
Main Function

- high quality LED: low consumption, brightness, stable capability and long life
- Each color of LED with 256 dimming, RGB each color has a good degree of saturation.
- Liner Dimming 0%-100%, function of strobe, eotic, gradual change and jumping change
- DMX512 Controller，4 button set DMX ID address with led display
- auto run /sound activated/master slave/interconnected multi-machine control
- using switching power supply to protect the LED to work well
- lens degree: 15º、25º、45º optional
- DMX512 channels:4,5,9 channels
- body color: black/white/optional

DMX Control Function

4CH

Channel	DMX Value	Control Function	Remark
1CH	0-255	RGB mixing 0-100%	
2CH	0-255	A 0-100%	
3CH	0-255	W 0-100%	
4CH	0-255	General dimming 0-100%	

5CH

Channel	DMX Value	Control Function	Remark
1CH	0-255	R 0-100%	
2CH	0-255	G 0-100%	
3CH	0-255	B 0-100%	
4CH	0-255	A 0-100%	
5CH	0-255	W 0-100%	

9CH

Channel	DMX Value	Control Function	Remark
1CH	0-255	General dimming	
2CH	0-255	Red Dimming 0——100%	
3CH	0-255	Green Diming0——100%	
4CH	0-255	Blue Dimming 0——100%	
5CH	0-255	Amber 0——100%	
6CH	0-255	White 0——100%	
7CH	0-14	Dimming	When the 7CH above31，this function is invalid
	15-255	Strobe Speed	
8CH	0-31	Invalid	
	32-63	From dark to bright	Must use CH1、2、3、4，5 otherwise no light，From the 9CH, start the speed adjustment
	64-95	From bright to dark	
	96-127	From dark—bright—dark	
	128-159	RGB Gradient	
	160-191	dark-bright-dark Automatic	
	192-223	5 colors jumping change	
	224-255	Many color mixing jumping change	
9CH	0-255	Speed adjust（slow--quick）	

Display Operation
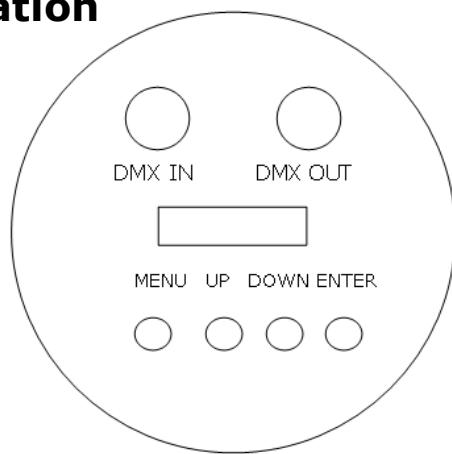
- MENU : access the menu or return to a previous menu option

- ENTER: select the current menu option

- UP: menu selection or parameter increments

- DOWN: menu selection or parameters decrease

Manual Instruction

Operating instruction

MENU > ENTER > UP/DOWN > ENTER

1 MENU is used to access the menu or return to a previous menu option. It can not be used to select and store the current menu option. Press UP / DOWN to choose a desired menu item. Here are the operation details :

- "addr": DMX mode （A001-A512）
- SLAV": Slave receive mode
- "CHnd": DMX accept channel select (4, 5, 9)
- "SP"; built-in program speed change model (SP00-SP15, SP00 is the fastest)
- "Pr"; Built-in program （Pr00-Pr15 16 program in all）
- "ASC"; many colors jumping（AS00-AS15 speed adjustable）
- "FAdE": gradual change model（FA00-FA15 speed adjustable）
- "FLAS": white color strobe（FL00-FL15 speed adjustable）
- "rL": red color brightness adjustment mode（r000-W255, r255 is the brightest）
- "gL": green color brightness adjustment mode（g000- g255, g255 is the brightest）
- "bL": blue color brightness adjustment mode（b000- b255, b255 is the brightest）
- "uL": white color brightness adjustment mode（u000- u255, u255 is the brightest）

2 Press ENTER to access the further menu setting. This process can be saved automatically; that means you will enter the process saved previously when you activate the light next time. For example, if you want to choose DMX mode A001, operate as follows:

- Press MENU, go back to the initial setting
- Press UP / DOWN until Addr
- Press ENTER to choose, the display will glinting at this moment
- Press UP / DOWN to change the address code to select A001

- Press ENTER to select and store the current menu options. DMX mode will be
- stored automatically and the screen will stop glinting.

- DMX channel choosing Operation：CHNd mode
- Press Menu, go back to the initial setting
- Press UP/DOWN，until shows "CHNd"
- Press ENTER to access the menu items to select, the screen will now be glinting
- Press UP/DOWN to change the DMX Channel: 4CH、 5CH、9CH
- At last, press ENTER to confirm, if it delay for 3 second, DMX channel choosing will be saved, and go back to DMX receive mode(A001); If your press　ENTER for short time or not press, delaying for 8 seconds, the DMX channel will select to be saved automatically, and then go back to DMX receive mode(A001)

3. Details of program built inside（Pr- -）
- Press MENU, go back to the initial setting
- Press UP / DOWN until Pr--
- Press ENTER to choose, the display will glinting at this moment
- Press UP / DOWN to change the address code to select pr00
- Press ENTER to select and store the current menu options. DMX mode will be
- stored automatically and the screen will stop glinting.

Note：Pr32--- Pr35 Can change the content Of SP，correct the speed of jumping change , SP00 is the fastest，SP15 is the slowest
  - Pr00--- Pr31: R,G,B,A,W single color or multi-colors lighting
  - Pr32：5 colors jumping
  - Pr33：5 colors jumping+strob
  - Pr32：muilt colors jumping
  - Pr33：muilt colors jumping+strob

Operating Control Instruction

Master/Slave

Master：The master should set as built-in program and shows" P - X – X" send out synchronization signals. To avoid the host signal and DMX512 signals interfere with each other, should cut off the DMX512 signals. The signal lines are longer than 60 meters should increase a signal amplifier.

Slave：It must be in the SLAV mode and the address code should be A001 to assure receive the master's signals correctly. Only one light can be set as a Master and others are slaves.

XLR cable connecting

XRL cable：

The stand connection way of the XRL is: one end connects to the male plug, and the other connects to the female.
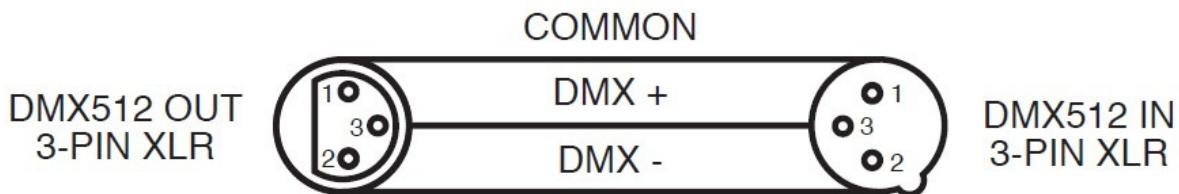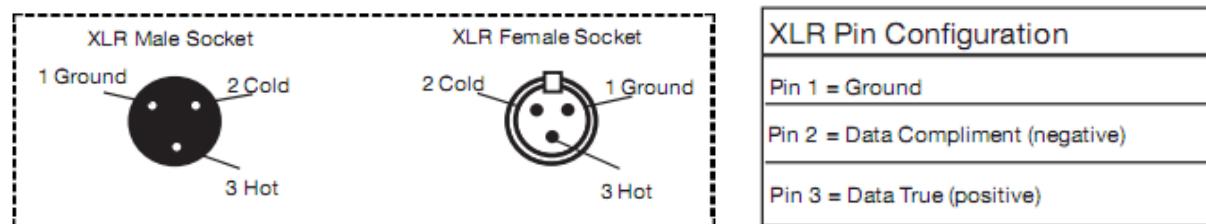
Noted：In order to avoid failures and interference signal transmission we connect a resistance120Ω 1/4W at the end of the DMX connecting as below:

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

The Conversion between 3pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

Connecting picture

Cable connecting picture：
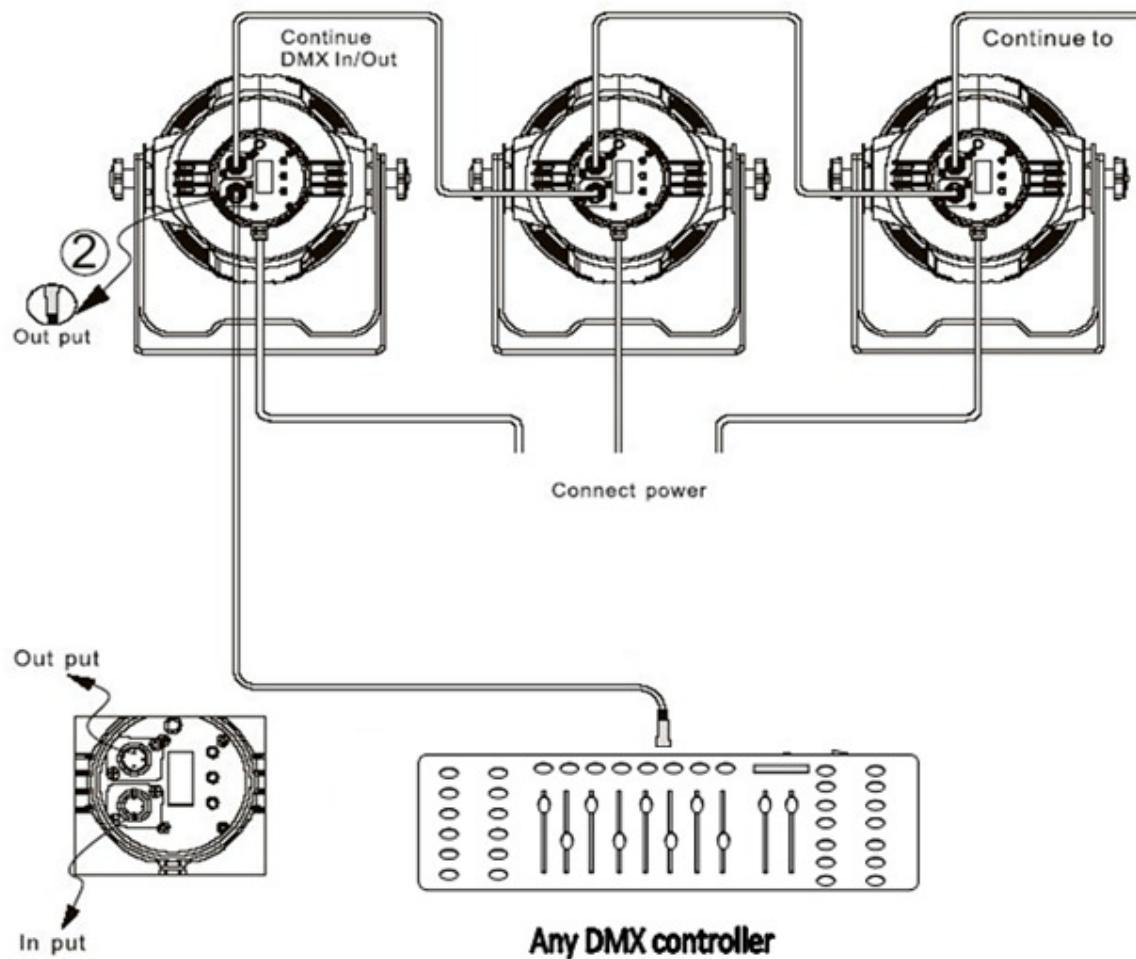
Electrical wiring diagram
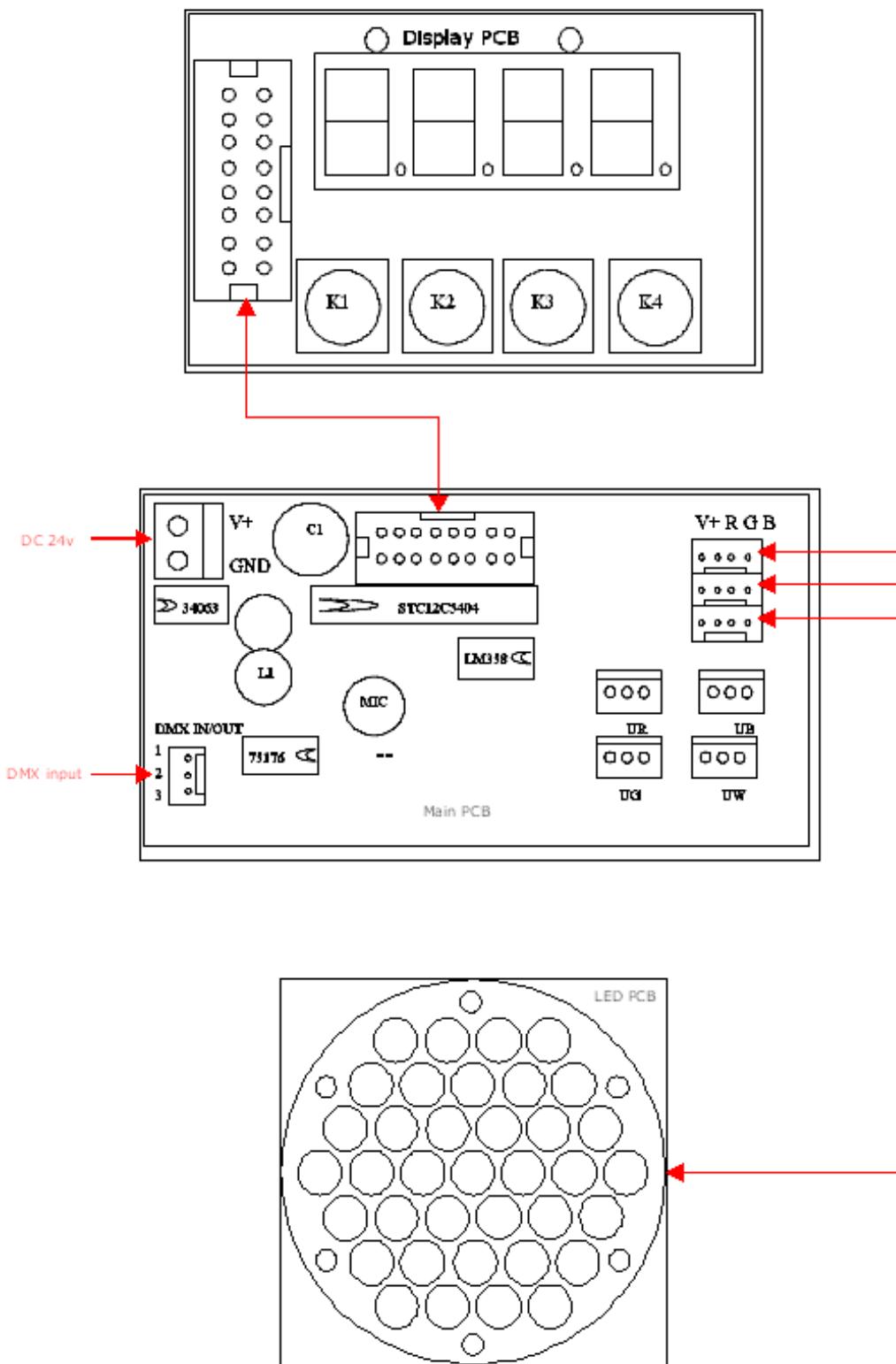
Exploded views
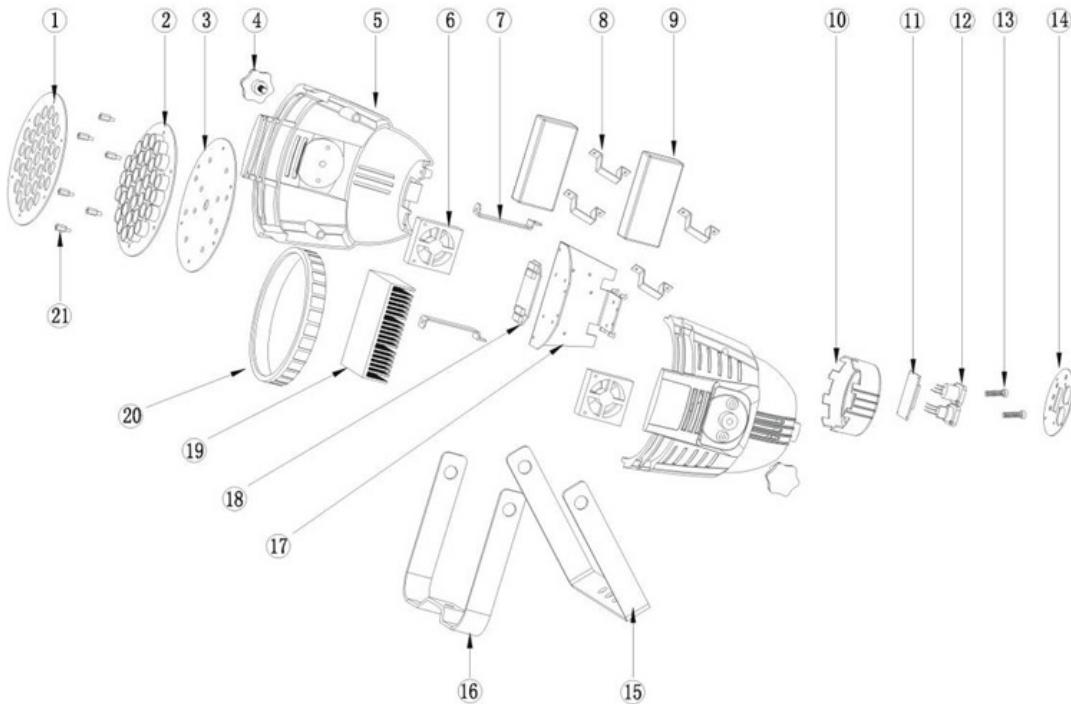
Order number	Item	Quantity	Remarks
1	Lens platen	1PCS	
2	Aluminum base	1ASM	
3	Heating Panel	1PCS	
4	Rubber-headed screw	2PCS	
5	Lamp housing	2PCS	
6	Fan	2PCS	
7	Support frame	2PCS	
8	Power tabletting	4PCS	
9	Power supply	2PCS	
10	Chassis	1PCS	
11	Display board	1ASM	Finished product
12	XRL base board	1ASM	Finished product
13	Screw	2PCS	
14	screen platen	1PCS	
15	outside handle	1PCS	
16	inside handle	1PCS	
17	Power main board bracket	1PCS	
18	PCB control board	1ASM	
19	Radiator	2PCS	
20	light blocking ring	1PCS	
21	Copper pillar	6PCS	

Luminance list

3W*12R-12G-12B light distribution

RGB	2540	550	268	160	99.6
R	910	190.7	88.5	53.8	33.8
G	1294	291.8	144.1	85.8	54.5
B	324	73	36.5	21.3	13.6

0.1*MAX

0.5*MAX

MAX Lux

0.5*MAX

0.1*MAX

R	396.6	130.1	68.2	42.0
G	592.3	203	109.5	67.7
B	146	50.2	27.4	17
RGB	1100	381.2	201	124.4
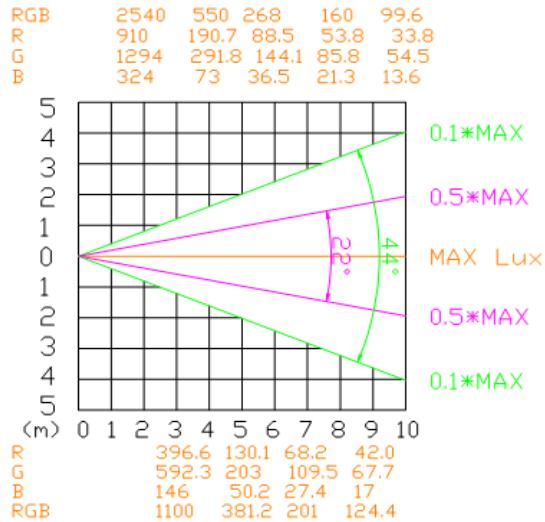
Tipical Chromaticity

Colors	X CIE(1931)	Y CIE(1931)
R	0.6973	0.2989
G	0.1626	0.7396
B	0.1372	0.0559
RGB	0.3029	0.2397

Luminance Distribution

Lux
100.0
900.0
1700
2500
3300
4100
4900
5700
6500
7300
8100
8900
9700
1.050E4
1.130E4
1.210E4
1.290E4
1.370E4
1.450E4
1.530E4
1.570E4

Equal Lux curve at 1 meter distance, on axis
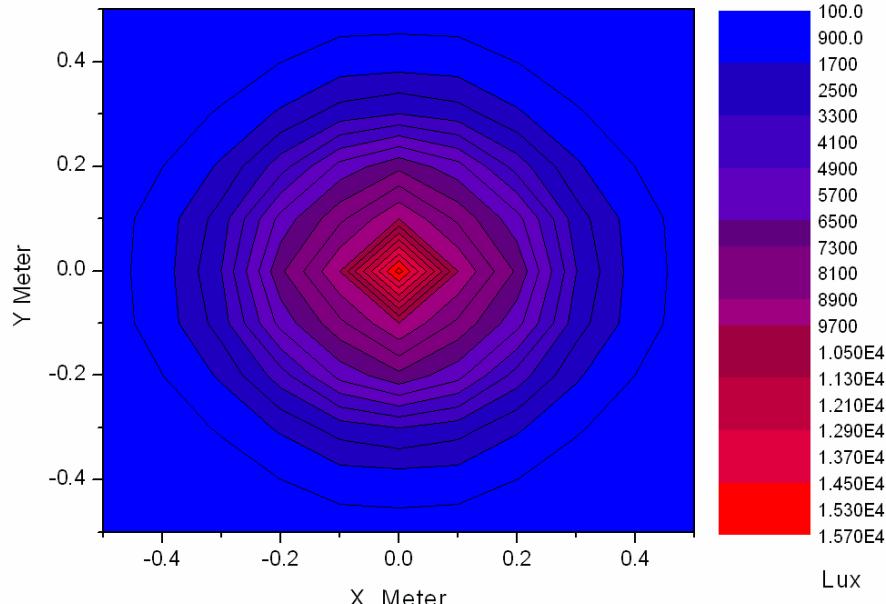
Problem Analyze

Problem	Checking way
Can not turn on the light	◆ Check the power source plug is in normal or not ◆ Check the switch of the lights is off or on ◆ Check it the fuse if in normal
DMX can not control it	◆ Check the DMX cable is connect to the lights or not ◆ Check the DMX512 controller work in normal or not ◆ Check the DMX cable is normal or not ◆ Check if the lights is in DMX mode（A001）
Display not bright	◆ When connect to the electricity did the led flash one time? If so the power source is normal; If not please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Chang the display
LED not light	◆ When connect to the electricity did the led flash one time? If so the power source is normal; If not please check if the switch and the transformer has power out ◆ Check if the power input of the IC board is normal ◆ Check if the cable connect to the display loose ◆ Change the main board to see if it is normal. ◆ Chang the display
	◆ LED is connect by leds in series first, then connect parallel, so please check if the leds is loose

Some of the LED not light	◆ Use the multimeter to check if the led is bright or not, of not, please change the led ◆ check whether current limiting resistor is normal or not ◆ Check constant current IC is normal or not (compared with the normal IC)
Single color leds always bright/not bright	◆ Check the switch of this color is normal or not ◆ Change the IC control board

Noted: only professional persons can do as above !

Technical Specification

- Input voltage：AC 100V-264V/47-63HZ

- Output voltage：DC24V

- Consume：60W （36*3W：120W）

- Lamp Type：High Power LED(1W/3W)

- Lamp Spec：R(6PCS)， G(8PCS)， B(8PCS)，A(6PCS)，W（8PCS）

- Control Signal：DMX512, sound activated, auto run

- Control mode：stand alone/ sound activated

- Channel：4,5,9CH

- Color effect：RGBAW mixing

- Function Effect：dimmer, strobe, eotic, gradual change

- Beam Angle: 15°, 25°,45°

- Cooling mode: Fun

- Anti-electricity intension：1.5KV

- Insulation Resistance：＞2 MΩ

- Size:：330*295*220mm

- Net Weight： 5KG

KANDOlite®